





AB 077

Łódź 14<sup>th</sup> of July 2017

# Laboratory of Chemical Testing and Instrumental Analysis

92-103 Lodz, 5/15 Brzezinska Str. phone no. +48 42 6163130 (120, 128), fax +48 42 6163131 e-mail: <u>ipiestrzeniewicz@iw.lodz.pl</u>, <u>labchem@iw.lodz.pl</u>

L - 263/2017

# ŚWIADECTWO Z BADAŃ nr BCH 252/560/2017/A

1. Name and address of the principal: "TOPTEXTIL" Sp. z o.o.

ul. Wadowicka 12, 30 – 415 Kraków

- 2. Name and description of tested sample: sample No 1 furniture fabric RETRO
- 3. Date of receiving sample for testing: 09.07.2017
- 4. Date of performance of testing: 12.07. 13.07.2017
- 5. Sampling: sample in a proper size, in a proper condition for research, supplied by the client

#### RESULTS OF THE TESTS

Property of investigation	Results	Results Testing method Test conditions		Level of requirements for categories according to PN-EN 14465:2005 + A1:2007		
				A	В	C
Colour fastness to rubbing:  - Dry ''     weft     warp - Wet     weft     warp	a/ 3-4 a/ 4 a/ 4 a/ 4	PN-EN ISO 105- X12:2005	Acclimatization conditions: temperature: (20,0±2)°C; relative humidity: (65,0±2)%; time: 4h;  Test conditions: ambient temperature; rubbing pick: Ø 16±0,1mm; push: 9±0,2 N; degree of moisturising of rubbing to fabric: 100%	≥ 4-5 ≥ 3-4	4	3-4 2-3

<sup>1)</sup> Colour fastness according to "Grey scale", indicator "5" means – no change in colour, indicator "1" means – big change in colour a/ staining rubbing to cotton

#### Remarks:

- 1. In accordance with ISO ILAC-IAF (January 2009) Communicate available on www.pca.gov.pl, laboratory accreditation referring to ISO/IEC 17025:2005 means fulfilling the demands concerning technical laboratory competence and managing system, which are required to ensure technical reliable results of the tests.
- 2. Test results refer only to the tested material.
- 3. Neither of the parts of this test certificate can be copied without written permission of the Head of the Laboratory.
- 4. Total number of pages of the test certificate 1.

Test authorized by:

Zdzisława Mrozińska, M.Sc. Eng.

Thens

Confirmed by:

LABORATORIUM BADAN CHEMICZNYCH I ANALIZ INSTRUMENTALNYCH KIEROWNIK TECHNICZNY ds. Badan Chemicznych i Odporności Wybarwień

mgr inż. Katarzyna Chylewska

Number of copies: 3

The test certificate receive:

- Customer 1 copy
- IW Laboratory of Chemical Testing and Instrumental Analysis 1 copy
- IW Laboratory of Testing Textile Raw Materials and Fabrics 1 copy



# **Laboratory of Flammability Testing**

90-520 Lodz, 118 Gdanska Str. phone 48 42 2534435 (436), fax 48 42 2534490 e-mail: mszejna@iw.lodz.pl



AB 029

#### TEST CERTIFICATE ON FLAMMABILITY TESTING OF UPHOLSTERY COMPOSITE

No 148 / BP / 17

INSTYTUT WŁÓKIENNICTWA

LABORATORIUM BADAN PALNOŚCI WYROBÓY

ul. Gdańska 118, 90 520 Lósz

#### Test method:

PN-EN 1021-1:2014-12 Furniture. Assessment of the ignitability of upholstered furniture. Part 1: Ignition source smouldering cigarette.

#### Orderer:

TOPTEXTIL Sp. z o.o. ul. Wadowicka 12 30-415 Kraków

#### Subject of testing:

Upholstery composite:

- upholstery fabric named RETRO composition: 100% Polyester

- T-3037 SG polyurethane foam, self-extinguish

Testing sample with the correct size, in appropriate state for testing, supplied by the Orderer with its characteristic and without the Sampling Protocol.

# Results of testing:

Standard	Test method	Result
PN-EN 1021-1:2014-12	Ignition source: smouldering cigarette	Neither progressive smouldering ignition nor flaming ignition occurred.

The above test results relate only to the ignitability of the combination of materials under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of the materials in use.

Tests performed by:

Andrzej Kubacki, technician

Sample received on:

07.06.2017

Test performed on:

03.07.2017

Test Certificate authorized by:

Laboratorium Badań Palności Wyrobów KIEROWNIK

mgr Inż. Małgorzata Szejna

#### NOTES:

- 1. The Testing results refer only to the tested sample.
- 2. Test Certificate consists of 2 pages.
- 3. Test Certificate must not be reproduced in another way, than as a whole without a prior written consent of the Testing Laboratory.
- 4. The Orderer using this Test Certificate is responsible for the conformity between the product and sample submitted for testing.

### DETAILED TESTING RESULTS

Climate conditions: temperature  $(23 \pm 2)$  °C; humidity  $(50 \pm 5)$  %; time 24 h

Testing conditions: temperature 22 °C; humidity 60 %

Preparation of test samples:

the upholstery fabric, exposed to wetting in water and drying procedure, in accordance with Appendix D of the norm PN-EN 1021-1:2014-12.

## Upholstery composite characteristic:

Upholstery composite:

- upholstery fabric named RETRO composition: 100% Polyester

- T-3037 SG polyurethane foam, self-extinguish

Criteria		Cigarette			Remarks					
		1	2	3	Remarks					
Unsafe escalating combustion Test assembly consumed		NO	NO	-	Maximum cigarette smouldering time:					
		NO	NO	-						
C 11 :	Smoulders to extremities	NO	NO	-	10 . 52					
Smouldering criteria	Smoulders through thickness	NO	NO	-		18 minutes 53 seconds				
criteria	Smoulders more than 1 hour	NO	NO	-	Maximum upholstery					
	In final examination, presence of active smouldering	NO	NO	1				upnois destruc		
Flaming				W 21.	horizo	ntal [n	nm]	ver	tical [m	m]
criteria	Occurrence of flames	NO	NO	1	length 67	width 14	depth 14	length 69	width 15	depth 10

Result of testing: Neither progressive smouldering ignition nor flaming ignition occurred.

END OF THE TEST CERTIFICATE

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# **Laboratory of Testing Textile Raw Materials and Fabrics**

92-103 Lodz, 5/15 Brzezinska Str., phone 48 42 6163142, fax 48 42 6792638 90-520 Lodz, 118 Gdanska Str., phone 48 42 2534419, fax 48 42 2534490

e-mail: bwitkowska@iw.lodz.pl,jandrysiak@iw.lodz.pl,





**AB 164** 

# LABORATORY OF TESTING TEXTILE RAW MATERIALS AND FABRICS Testing Laboratory accredited by the Polish Centre for Accreditation

#### TEST CERTIFICATE NO. BM 4.2.1.4 / 2017 / G / A

- 1. Test ordered by: "TOPTEXTIL" Sp. z o.o., 12 Wadowicka Street; 30-415 Kraków
- 2. Name and description of tested material: the sample: the upholstery fabric RETRO, declared raw material composition: 100 % Polyester
- 3. Date of receiving material for testing: 2017-06-07
- 4. Date of test performance: 2017-06-23÷07-07
- 5. Samples taken by: correct sample size in appropriate state for testing, taken by the Client and delivered without the Sampling Protocol
- 6. Tests carried out according to: methods presenting in testing table

#### Results of Laboratory Tests

see page 2/2

Test performed by: Ewa Gontarska, Krystyna Wierus

- 1. Test results refer only to the tested material.
- 2. Neither of the parts of this Test Certificate can be copied without written permission of the Head of the Laborators it can be copied only as a whole document.
- 3. Test Certificate presents test results included within accreditation field of testing.
- 4. Test results not included in accreditation scope, if occur, are marked with "in the test results table, at the paramete
- 5. Measurement uncertainty, if it is specified, has been determined according to the recommendations presented in document EA-4/16. Presented values of uncertainty constitute expanded uncertainty at 95% confidence levels and coverage factor k = 2.

Certificate date: 2017-07-13 Number of Certificate copies: 2 Test Certificate handed to:

- 1) TOPTEXTIL Sp. z o.o., Kraków 1 copy
- 2) Laboratory of Testing Textile Raw Materials and Fabrics 1 copy.

Certificate prepared by:

Patrycja Bąk MSc Eng

Person authorizing the Test Certificate:

Name and surname:

Function:

Signature

Kierownika Laboratorium Instytut Vlókiennictwa

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mgr inż. Jerzy Andrysiak

# TEST CERTIFICATE NO. BM 4.2.1.4 / 2017 / B / A

Parameter	Value	Remarks
Colour fastness to artificial light, grade - pink colour - grey colour - burgundy colour	4-5 4-5 4	PN-EN ISO 105-B02:2014-11 Method 2 device type: Xenotest Alpha HE, exposure conditions according to this European Standard paragraph 7, table 2: conditions of temperate zone - exposure cycle A1,  Assesment: Visual assesment by comparison with blue wool lightfastness references: from 1 (very low colour fastness) to 8 (very high colour fastness)
Evaluation according to PN-EN 14465:20	05+A1:2007:	
A category: grade $\geq 6$ ; B category: g	grade $\geq$ 5;	C category: grade $\geq 4$ ;

The end of Test Certificate	

## Person authorizing the Test Certificate

Name and surname:

Function:

Signature

Zastępca Kierowniko Laboratorium Badan Surowcow i Wyrobów Wokienniczych Instytu Wokiennictwa

mgr inż. Jerzy Andrysiak

# **Laboratory of Testing Textile Raw Materials and Fabrics**

92-103 Lodz, 5/15 Brzezinska Str., phone 48 42 6163142, fax 48 42 6792638 90-520 Lodz, 118 Gdanska Str., phone 48 42 2534419, fax 48 42 2534490

e-mail: bwitkowska@iw.lodz.pl,jandrysiak@iw.lodz.pl,





**AB 164** 

## LABORATORY OF TESTING TEXTILE RAW MATERIALS AND FABRICS Testing Laboratory accredited by the Polish Centre for Accreditation

#### TEST CERTIFICATE NO. BM 4.2.1.3 / 2017 / B / A

- 1. Test ordered by: "TOPTEXTIL" Sp. z o.o., 12 Wadowicka Street; 30-415 Kraków
- 2. Name and description of tested material: the sample: the upholstery fabric RETRO, declared raw material composition: 100 % Polyester
- 3. Date of receiving material for testing: 2017-06-07
- 4. Date of test performance: 2017-06-12÷14
- 5. Samples taken by: correct sample size in appropriate state for testing, taken by the Client and delivered without the Sampling Protocol
- 6. Tests carried out according to: methods presenting in testing table

#### **Results of Laboratory Tests**

see page 2/2

Test performed by: Elżbieta Olczak

- 1. 1est results refer only to the tested material.
   2. Neither of the parts of this Test Certificate can be copied without written permission of the Head of the Laboratory; it can be copied only as a whole document.
   3. Test Certificate presents test results included within accreditation field of testing.
   4. Test results not included in accreditation scope, if occur, are marked with \*\frac{1}{2}\$ in the test results table, at the naramoid name.
   5. Manual

- 5. Measurement uncertainty, if it is specified, has been determined according to the recommendations presented in document EA-4/16. Presented values of uncertainty constitute expanded uncertainty at 95% confidence level and coverage factor k = 2.

Certificate date: 2017-07-13 Number of Certificate copies: 2 Test Certificate handed to:

- 1) TOPTEXTIL Sp. z o.o., Kraków 1 copy
- 2) Laboratory of Testing Textile Raw Materials and Fabrics 1 copy.

Certificate prepared by:

Patrycja Bak MSc Eng

Person authorizing the Test Certificate:

Name and surname: Laboratorium Badań Surowców

Instytut ?

Function: Signature

zy Andrysiak

Vickiennictwa

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Badań Surowców

Brzezińska 5/1

## TEST CERTIFICATE NO. BM 4.2.1.3 / 2017 / B / A

Parameter		Value	Remarks		
	color change after 3 000 rubs, grade of grey scale	4 - 5	PN-EN ISO 12947-2:2017-02 + PN-EN 14465:2005+A1:2007, Annex A the conditioned sample,		
Abrasion resistance, number of rubs	1 specimen	18 000	the abradant: the standard woollen fabric, the nominal pressure used in the test: 12 kPa,		
	2 specimen	18 000	magnification factor in the magnifying device: 8,		
	3 specimen	20 000	in holders used foam.  Criterion of destruction of the testing specimens in accordance with that standard:		
	4 specimen	18 000	three threads completely destroyed		
	5 specimen	18 000			
	6 specimen	25 000			
Production	Total abrasion resistance (the lowest individual result)	18 000			

Evaluation:

according to PN-EN 14465:2005 + A1:2007: A category: number of rubs ≥ 35 000 rubs, **B category: number of rubs: 12 000** ÷ 30 000, C category: number of rubs: 4 000 ÷ 10 000

The end of Test Certificate	

Person authorizing the Test Certificate

Name and surname:

Function:

Signature

Zastępza Kierownika Laboratorium Zadań Surowców i Wyrobowy. Wokienniczych Instyjut Włokiennictwa

mgr int Jerzy Andrysiak

# **Laboratory of Testing Textile Raw Materials and Fabrics**

92-103 Lodz, 5/15 Brzezinska Str., phone 48 42 6163142, fax 48 42 6792638 90-520 Lodz, 118 Gdanska Str., phone 48 42 2534419, fax 48 42 2534490

e-mail: bwitkowska@iw.lodz.pl, jandrysiak@iw.lodz.pl





**AB 164** 

# LABORATORY OF TESTING TEXTILE RAW MATERIALS AND FABRICS Testing Laboratory accredited by the Polish Centre for Accreditation

#### TEST CERTIFICATE NO. BM 4.2.1.2 / 2017 / B / A

- 1. Test ordered by: "TOPTEXTIL" Sp. z o.o., 12 Wadowicka Street; 30-415 Kraków
- 2. Name and description of tested material: the sample: the upholstery fabric RETRO, declared raw material composition: 100 % Polyester
- 3. Date of receiving material for testing: 2017-06-07
- 4. Date of test performance: 2017-06-26
- 5. Samples taken by: correct sample size in appropriate state for testing, taken by the Client and delivered without the Sampling Protocol
- 6. Tests carried out according to: methods presenting in testing table

#### **Results of Laboratory Tests**

see page 2/2

Test performed by: Elżbieta Olczak

- Test results refer only to the tested material.
   Neither of the parts of this Test Certificate can be copied without written permission of the Head of the Laboratory.

- Jest Certificate presents test results included within accreditation field of testing.
  Test results not included in accreditation scope, if occur, are marked with in the test results table, at the parameter name.
  Measurement uncertainty, if it is specified, has been determined according to the recommendation of the recommendation of the second table.
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  Measurement uncertainty is a second table at the parameter in the second table.
  Test results not included in accreditatio

Certificate date: 2017-07-13 Number of Certificate copies: 2 Test Certificate handed to:

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Certificate prepared by:

Patrycja Bąk MSc Eng

Person authorizing the Test Certificate:

Name and surname:

Function:

Signature

Laboratorium

rzy Andrysiak

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# TEST CERTIFICATE NO. BM 4.2.1.2 / 2017 / B / A

he number of rubs			
500	5	PN-EN ISO 12945-2:2002 (modified Martindale method)	
1 000	4 – 5	the conditioned sample, the abradant: the standard woolen fabric;	
2 000	4 - 5 Slight surface fuzzing	mass of weight: 415 ± 2 g;	
		grade $\geq 4-5$ ; B category: grade 4,	
_	1 000 2 000 PN-EN 14465:2005	1 000 4-5 2 000 4-5 Slight surface fuzzing PN-EN 14465:2005+A1:2007: A category:	

The end of Test Certificate	

Person authorizing the Test Certificate

Name and surname:

Function:

Signature

Zastępy Kierownika Laboratoriuf Padań Surowców I Wyrobów Wiókienniczych Instytyt Wiókiennictwa

mgr Inż Jerzy Andrysiak



# Laboratory of Testing **Textile Raw Materials and Fabrics**

92-103 Lodz, 5/15 Brzezinska Str., phone 48 42 6163142, fax 48 42 6792638 90-520 Lodz, 118 Gdanska Str., phone 48 42 2534419, fax 48 42 2534490

e-mail: bwitkowska@iw.lodz.pl, jandrysiak@iw.lodz.pl





**AB 164** 

# LABORATORY OF TESTING TEXTILE RAW MATERIALS AND FABRICS Testing Laboratory accredited by the Polish Centre for Accreditation

#### TEST CERTIFICATE NO. BM 4.2.1.1 / 2017 / B / A

- 1. Test ordered by: "TOPTEXTIL" Sp. z o.o., 12 Wadowicka Street; 30-415 Kraków
- 2. Name and description of tested material: the sample: the upholstery fabric RETRO, declared raw material composition: 100 % Polyester
- 3. Date of receiving material for testing: 2017-06-07
- 4. Date of test performance: 2017-07-10
- 5. Samples taken by: correct sample size in appropriate state for testing, taken by the Client and delivered without the Sampling Protocol
- 6. Tests carried out according to: methods presenting in testing table

### **Results of Laboratory Tests**

see page 2/2

Test performed by: Elżbieta Olczak

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Certificate date: 2017-07-13 Number of Certificate copies: 2 Test Certificate handed to:

- 1) TOPTEXTIL Sp. z o.o., Kraków 1 copy
- 2) Laboratory of Testing Textile Raw Materials and Fabrics 1 copy.

Certificate prepared by:

Patrycja Bak MSc Eng

Person authorizing the Test Certificate:

Name and surname:

Function:

Signature

Zastępca Laboratorium i Wyrobó clenniczych kiennictwa

rzy Andrysiak

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# TEST CERTIFICATE NO. BM 4.2.1.1 / 2017 / B / A

		Remarks
Seam slippage resistance, mm:  Warp  The mean value of seam slippage resistance for warp direction, mm  individual results, mm  Weft	3 3,5; 3,5; 3; 3; 3,5	PN-EN ISO 13936-2:2005 the conditioned sample, tensile machine: Hounsfield H50 KM, testing force: 180 N, 100% PES sewing threads (74 ± 5) tex, the number of sewing needle: 110 the number of stitch: 32±2/100 mm rate of extension: 50 mm/min.
The mean value of seam slippage resistance for weft direction, mm individual results, mm	<b>4</b> 4; 3,5; 4; 4; 3	number of test specimens: 5

**Evaluation:** 

according to PN-EN 14465:2005 + A1:2007

requirements level: A category: ≤ 4 mm; B category: ≤ 6 mm; C category: ≤ 8 mm

The end of Test Certificate \_\_\_\_\_

Person authorizing the Test Certificate

Name and surname:

Function:

Signature

Zastęp a Kierownika Laboratorium Fadań Surowców i Wyrobów Włokienniczych Instytut Wokiennictwa

mgr inż. Jerzy Andrysiak